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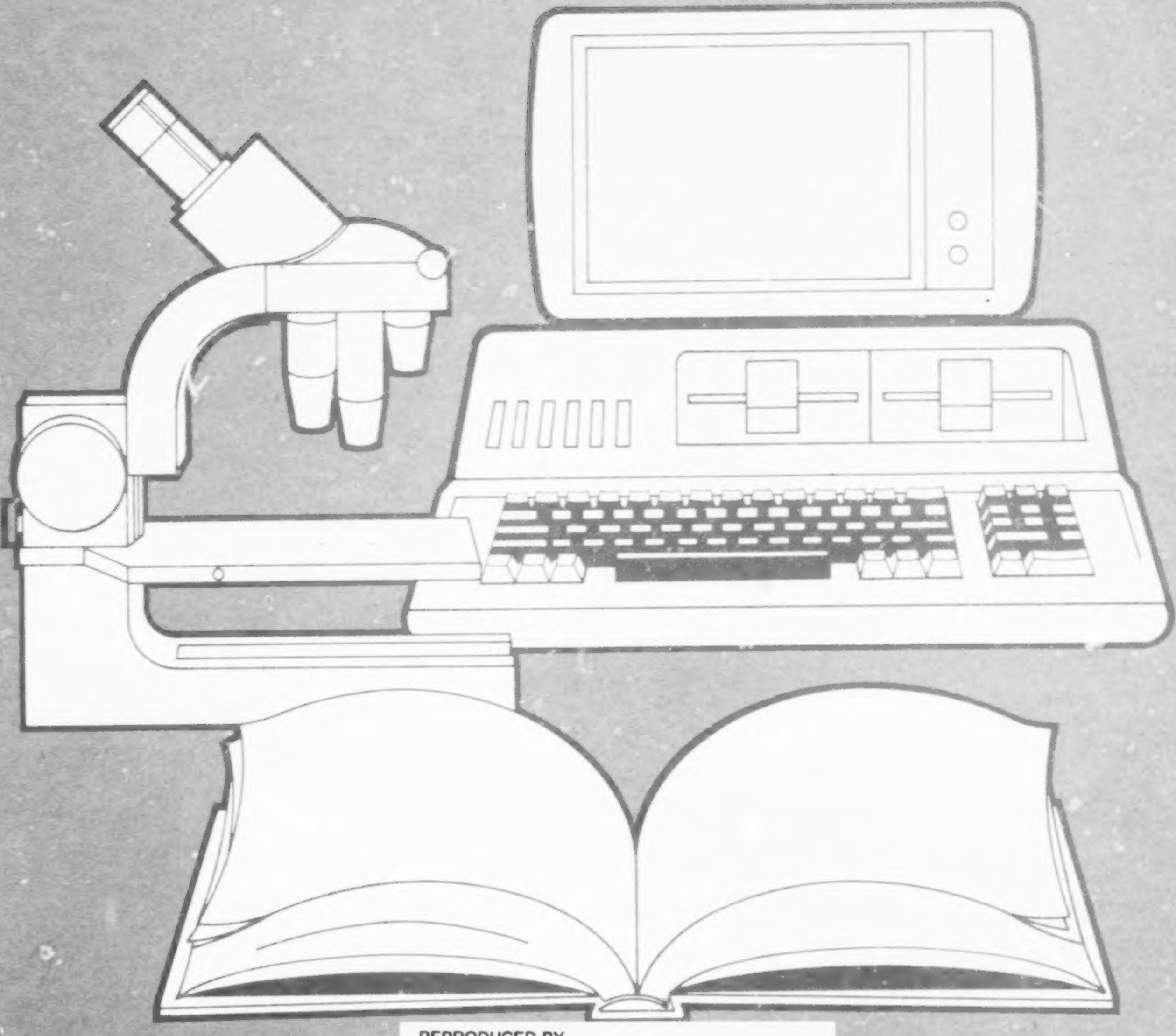

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The Protection of Hays: 1979-85

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Compiled and Edited by
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FOREWORD

This is the 11th volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.

Joseph H Howard

JOSEPH H. HOWARD, Director
National Agricultural Library

Douglas D Campt

DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of conservation tillage. All citations are derived from AGRICOLA (AGRICultural Online Access), the family of databases compiled by the National Agricultural Library and its cooperators.

This is the 11th bibliography included in a series of commodity-oriented environmental databases jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes issued recently or planned for the immediate future concern protection of corn, soybeans, pome fruits, stone fruits, grain sorghum, rice, and peanuts.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

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U.S. EXTENSION SERVICES

0005

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GRADING, STANDARDS, LABELLING

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0641

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0642

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Welty, R.E. Rawlings, J.O. St. Paul, Minn. : American Phytopathological Society. Plant disease. Apr 1984. v. 68 (4). p. 294-296. Includes references. (NAL Call No.: 1.9 P69P).

0643

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0645

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0646

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0648

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0649

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0650

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Knorr, D.A.PHYTA. Laemmlen, F.F.; Dawson, W.O. St. Paul : American Phytopathological Society. Phytopathology. Nov 1983. v. 73 (11). p. 1554-1558. ill. Includes references. (NAL Call No.: 464.8 P56).

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0810

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0812

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PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

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0867

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Yarris, L. SEA-WO~AR-W. Washington, D.C., The Administration. Agricultural research - U.S. Department of Agriculture, Science and Education Administration. Aug 1980. v. 29 (2). p. 16. (NAL Call No.: 1.98 AG84).

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0885

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ANIMAL DISEASES - FUNGAL

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ANIMAL DISEASES - PHYSIOLOGICAL

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Alfalfa winter injury, survival, and vigor determined from aerial photographs (Remote sensing, soil drainage).
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1107

WATERSHED PLAN FOR TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES, OKLAHOMA.
ALFALFA COUNTY CONSERVATION DISTRICT. STILLWATER, OKLAHOMA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JUNE 1983 (EPA: JUNE 20, 1983). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND WATERSHED PROTECTION PLAN FOR THE 244,006-ACRE TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES OF NORTHCENTRAL OKLAHOMA IS PROPOSED. THE PLAN WOULD INVOLVE CONSTRUCTION OF 11 FLOODWATER-RETARDING STRUCTURES AND DEVELOPMENT OF WILDLIFE MITIGATION MEASURES ON 43.5 ACRES OF LAND OVER A SIX-YEAR PERIOD. APPROXIMATELY 62 STAFF-YEARS OF TECHNICAL ASSISTANCE WOULD BE PROVIDED TO FURTHER PLANNING GOALS. THE FLOODWATER-RETARDING STRUCTURES WOULD BE COMPACTED EARTHFILL EMBANKMENTS; BORROW MATERIAL WOULD BE TAKEN MOSTLY FROM AREAS BELOW THE SPILLWAY CREST. ALL PRINCIPAL SPILLWAYS WOULD CONSIST OF DROP-INLET STRUCTURES WITH STANDARD OPEN-TOP CONCRETE RISERS AND CONCRETE CONDUITS. EMERGENCY SPILLWAYS WOULD BE FORMED OF ROCK OR VEGETATED EARTH. ALL STRUCTURES WOULD OPERATE AUTOMATICALLY, WITH FLOODWATER BEING TEMPORARILY STORED IN DETENTION POOLS AND RELEASED AT A CONTROLLED RATE THROUGH THE PRINCIPAL SPILLWAYS. NINE OF THE STRUCTURES WOULD CONTROL THE 25-YEAR FREQUENCY STORM, WHILE THE REMAINING STRUCTURES WOULD CONTROL THE 50-YEAR FREQUENCY STORM. WATER INITIALLY RETAINED IN THE SEDIMENT POOLS WOULD BE DISPLACED BY SEDIMENT OVER THE 100-YEAR LIFE OF EACH STRUCTURE. LAND RIGHTS WOULD BE ACQUIRED ON THE 43.5 ACRES TO BE MANAGED FOR MITIGATION OF IMPACTS TO WILDLIFE HABITAT. MITIGATION LANDS WOULD INCLUDE 13 ACRES OF RANGELAND, 18 ACRES OF TIMBERLAND, AND 12.5 ACRES OF CROPLAND AND/OR PASTURE. COST OF THE PROJECT IS ESTIMATED AT $4.6 MILLION, AND THE ESTIMATED BENEFIT-COST RATIO IS 1.24. (POS)OPERATION OF THE FLOOD CONTROL STRUCTURES WOULD REDUCE FLOODWATER DAMAGE TO 17,598 ACRES OF AGRICULTURAL LAND, REDUCE FLOODING IN THE TOWN OF DOVER, REDUCE SEDIMENT DEPOSITION DOWNSTREAM OF THE STRUCTURES, AND MAINTAIN THE ENVIRONMENTAL QUALITY OF THE WATERSHED. AVERAGE ANNUAL SAVINGS RESULTING FROM FLOOD PROTECTION PROVIDED TO THE TOWN WOULD AMOUNT TO $7,790, WHILE AVERAGE ANNUAL SAVINGS RESULTING FROM AGRICULTURAL FLOOD. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

1108

WATERSHED PLAN FOR TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES, OKLAHOMA.
ALFALFA COUNTY CONSERVATION DISTRICT. STILLWATER, OKLAHOMA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE APRIL 1982 (EPA: APRIL 20, 1982). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND WATERSHED PROTECTION PLAN ON THE 244,006-ACRE TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES OF NORTHCENTRAL OKLAHOMA IS PROPOSED. THE PLAN WOULD INVOLVE CONSTRUCTION OF 11 FLOODWATER-RETARDING STRUCTURES AND DEVELOPMENT OF WILDLIFE MITIGATION MEASURES ON 43.5 ACRES OF LAND OVER A SIX-YEAR PERIOD. APPROXIMATELY 62 STAFF-YEARS OF TECHNICAL ASSISTANCE WOULD BE PROVIDED TO FURTHER PLANNING GOALS. THE FLOODWATER-RETARDING STRUCTURES WOULD BE COMPACTED EARTHFILL EMBANKMENTS, AND BORROW MATERIAL WOULD BE TAKEN MOSTLY FROM AREAS BELOW THE SPILLWAY CREST. ALL PRINCIPAL SPILLWAYS WOULD CONSIST OF DROP-INLET STRUCTURES WITH STANDARD OPEN-TOP CONCRETE RISERS AND CONCRETE CONDUITS. EMERGENCY SPILLWAYS WOULD BE FORMED OF ROCK OR VEGETATED EARTH. ALL STRUCTURES WOULD OPERATE AUTOMATICALLY, WITH FLOODWATER BEING TEMPORARILY STORED IN DETENTION POOLS AND RELEASED AT A CONTROLLED RATE THROUGH THE PRINCIPAL SPILLWAYS. NINE OF THE STRUCTURES WOULD CONTROL THE 25-YEAR FREQUENCY STORM, WHILE THE REMAINING STRUCTURES WOULD CONTROL THE 50-YEAR FREQUENCY STORM. WATER INITIALLY RETAINED IN THE SEDIMENT POOLS WOULD BE DISPLACED BY SEDIMENT OVER THE 100-YEAR LIVE LIFE OF EACH STRUCTURE. LAND RIGHTS WOULD BE ACQUIRED ON THE 43.5 ACRES TO BE MANAGED FOR MITIGATION OF IMPACTS TO WILDLIFE HABITAT. MITIGATION LANDS WOULD INCLUDE 13 ACRES OF RANGELAND, 18 ACRES OF TIMBERLAND, AND 12.5 ACRES OF CROPLAND AND/OR PASTURE. COST OF THE PROJECT IS ESTIMATED AT $4.3 MILLION, AND THE ESTIMATED BENEFIT-COST RATIO IS 1.27. (POS)OPERATION OF THE FLOOD CONTROL STRUCTURES WOULD REDUCE FLOODWATER DAMAGE TO 17,598 ACRES OF AGRICULTURAL LAND, REDUCE FLOODING IN THE TOWN OF DOVER, REDUCE SEDIMENT DEPOSITION DOWNSTREAM OF THE STRUCTURES, AND MAINTAIN THE ENVIRONMENTAL QUALITY OF THE WATERSHED. AVERAGE ANNUAL SAVINGS RESULTING FROM FLOOD PROTECTION

PROVIDED TO THE TOWN WOULD AMOUNT TO $7,790, WHILE AVERAGE ANNUAL SAVINGS RESULTING FROM AGRICULTURA. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

DRAINAGE AND IRRIGATION

1109

Volatilization of S-ethyl N,N-dipropylthiocarbamate from water and wet soil during and after flood irrigation of an alfalfa field.
Cliath, M.M. AR-W. Spencer, W.F.; Farmer, W.J.; Shoup, T.D.; Grover, R. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1980. v. 28. May/June 1980. v. 28 (3). p. 610-613. ill. 18 ref. (NAL Call No.: 381 J8223).

FOOD SCIENCE AND FOOD PRODUCTS

1110

Chemical preservation of alfalfa juice protein (Food or feed material).
Straub, R.J. Barrington, G.P.; Bruhn, H.D.; Koegel, R.G. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1539). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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FEED PROCESSING AND STORAGE

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MICROBIOLOGY OF FEED PROCESSING

1116

Quality of alfalfa hay chemically treated at cutting to hasten field drying.
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Champaign : American Dairy Science Association.
Journal of dairy science. May 1983. v. 66 (5).
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FEED CONTAMINATION TOXICOLOGY

1117

Bovine salmonellosis attributed to Salmonella anatum-contaminated haylage and dietary stress.
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1120

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INSECT PESTS AND CONTROL, ANIMALS AND MAN

1137

High pressure liquid chromatographic determination of cantharidin, using a derivatization method in specimens from animals (rabbit, rat, goat, sheep, and pony) acutely poisoned by ingestion of blister beetles, Epicauta lemniscata (with alfalfa hay).
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